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JUN 17 2014

GENERAL PERMIT REISSUANCE TRACKING SHEET

Facility Name: Vulcan Construction Materials Lawrenceville County: Brunswick
Owner: Vulcan Construction Materials LP Permit #: VAG84 0134
Permit Writer: OBK/BKR

	<u>Date</u>
Registration Statement Received (UPDATE CEDS)	3/25/14
Additional Information Requested	3/25/14
Additional Information Received	3/25/14
Fee Deposit Received	3/27/14
Registration Statement Considered Complete	3/25/14
Registration Statement to TMDL staff	6/5/14
All Applicable Information entered into CEDS	6/16/14
Application Information Added to General Permit Tracking Spreadsheet	6/16/14

Concurrences

Signature	<u>Q. Cutler</u>				
Date	<u>6/16/14</u>				

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY

VALLEY REGIONAL OFFICE

4411 Early Road - P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT: Registration Statement Errata for VPDES Permit Nos. VAG840113, VAG840114, VAG840118, VAG840120, VAG840126, VAG840134, VAG840135, VAG840137, VAG840152, VAG840156, VAG840162

TO: GP File

FROM: Olive Critzer

DATE: March 25, 2014

The following deficiencies were noted in the subject general permit registration statements:

All the facility names are to be prefaced with Vulcan Construction Materials

The above deficiency in the registration statement is considered to be insignificant in that it will not affect the reissuance of the general permit.



RECEIVED
DEQ - Valley
MAR 25 2014

To: _____
FILE: _____

March 17, 2014

Ms. Olive B. Critzer
Valley Regional Office
Department of Environmental Quality
PO Box 3000
Harrisonburg, VA 22801

RE: Reissuance of Nonmetallic Mineral Mining General Permit No. VAG840134
Vulcan Construction Materials Company – Lawrenceville Quarry – Brunswick County

Dear Ms. Critzer,

Enclosed, please find the General Permit Registration form and appropriate attachments for the above referenced facility.

We propose no changes to the existing permitted facilities and desire only to obtain a reissuance on the General Permit. Please provide DMR forms for the process water outfall 001 and the representative stormwater outfalls 015, 016, 017 and 022, described in the following enclosures. **Process water outfall 100 has been designed to operate as a “no discharge” outfall and therefor does not require a DMR form.** It should be noted that all process water outfalls do not include discharges from vehicle washing activities or oil water separator discharges; therefore, petroleum hydrocarbon sampling should not be included on the DMR form for each process water outfall.

Thank you for your kind assistance in this matter. If you have any questions and/or comments, please contact Brian Parker of Cardno MM&A at (804) 441-8388 or myself at (804) 717-8374.

Sincerely,

Walter C. Beck II

Walter Beck
Environmental Engineer

Enclosures

**VPDES GENERAL PERMIT REGISTRATION STATEMENT
NONMETALLIC MINERAL MINING**

**RECEIVED
DEQ - Valley**

MAR 25 2014

1. **Facility Owner:** Vulcan Construction Materials, LP C/O Walter Beck
2. **Owner Mailing address:** Street or P.O. Box 5601 Iron Bridge Parkway, Suite 201
City or Town Chester State Virginia Zip Code 23831
3. **Owner Telephone #:** (804) 717-5770 4. **Owner Email:** BeckW@VMCMAIL.com
5. **Contact Name:** Walter Beck 6. **Contact Telephone #:** (804) 717-8374
7. **Contact Email:** BeckW@VMCMAIL.com
8. **Facility Name:** Lawrenceville Quarry 9. **Facility Lat/Long (deg-min-sec):** 36-45-06 / 77-44-56
10. **Facility Address:** 600 Middle Road, Freeman, VA 23856
(County, Street Number, City or Town, State, Zip)
11. **Description of mining activity (mineral mined):** Extraction of granite and production of crushed stone products for the construction industry.
12. **Primary SIC code:** 1423 **Secondary SIC codes:** _____
13. **Does this mine currently have a VPDES permit?** Yes ☒ No ☐ (If yes, give permit number) VAG840134
14. **Discharge Information:** PLEASE SEE ATTACHED OUTFALL DESCRIPTIONS

OUTFALL NUMBER	OUTFALL TYPE (see note 1)	SOURCE OF DISCHARGE (see note 2)	RECEIVING STREAM AND WETLANDS	LATITUDE/ LONGITUDE (deg-min-sec)

Notes:

1. Outfall Type - list as (1) process wastewater, (2) storm water, or (3) process water commingled with storm water.
2. Source of Discharge (If the outfall has a combination of these sources, list all that apply): (1) mine pit dewatering, (2) storm water associated with industrial activity, (3) storm water not associated with industrial activity, (4) ground water infiltration, (5) wastewater from vehicle or equipment degreasing activities, (6) vehicle washing, (7) mined material washing, (8) return water from operations where mined material is dredged, (9) noncontact cooling water, (10) miscellaneous plant cleanup wastewater, (11) co-located facility discharges (identify the co-located facility), (12) emergency outfall for process water systems designed as "no discharge" or (13) other discharges not listed here (describe).

15. **Is the process water system designed to operate as "no discharge?"** Yes ☒ No ☒ (see instructions).
16. **Storm Water:** Outfall 305-001 will require a DMR while outfall 305-100 has been designed as a "no discharge" outfall
- a. **Indicate which exclusively storm water outfalls (if any) will be representative outfalls that require a single Discharge Monitoring Report (DMR).** SEE ATTACHED OUTFALL LIST FOR REPRESENTATIVE OUTFALLS
- b. **For storm water outfalls which are to be represented by other outfall discharges, attach a description of the activities associated with those outfalls and explain why they are substantially the same as the representative outfall to be sampled.**
- c. **Does the storm water discharge from a storm water management structure (a series of large settling sedimentation basins).** Yes ☒ No ☐
- d. **Storm water pollution prevention plans (SWPPPs) do not need to be submitted with this registration. However, see requirements for development, updating and implementation in instructions below.**

17. If the facility discharges to the Chickahominy watershed above Walkers Dam, provide monitoring data to demonstrate compliance with 9VAC25-260-310 m (Chickahominy special standards) as per Part I B 14 of the 2014 VPDES Nonmetallic Mineral Mining General Permit (if not already submitted to the Department under a different VPDES permit in a DMR).

18. Description of wastewater treatment or reuse/recycle systems, or both:

Solids settling in the pit and/or sedimentation basins prior to discharge

19. List any chemicals added to water that could be discharged:

Callaway (4310, 4325, 4330, 4345, 4848, 4880, 3455L, 3477, 3458, 6280), Jayfloc 3475, Rockfloc (3742R, 3746R, 3719R), RockDust (100, 3330), Paschal PFR (C453, F444, F485, C258, P255, D252, D253), Sodium Hydroxide, Hydrated Lime, Sulfuric Acid (20% Baume), Hydrochloric Acid

20. Indicate any co-located facilities:

21. Is this facility a hazardous waste treatment, storage, or disposal facility? Yes ☐ No ☒

22. Attach to this registration statement a schematic drawing showing the sources of water used for production, the industrial operations contributing to or using water, and the conceptual design of the methods of treatment and disposal of wastewater and solids. Identify outfall numbers listed in item 14 above.

23. Attach to this registration statement an aerial photo or scale map which clearly shows the property boundaries, plant site, drainage areas associated with each outfall, locations of all mine pit dewatering, existing, significant sources of materials exposed to precipitation, storm water management structures (if any), storm water or process wastewater outfalls listed in item 14 above and the receiving streams.

24. Attach to this registration statement evidence that the operation to be covered by this general permit has a mining permit which has been approved by the Virginia Department of Mines, Minerals and Energy, Division of Mineral Mining (or associated waived program) under the provisions and requirements of Title 45.1 of the Code of Virginia. Mineral mines owned and operated by governmental bodies not subject to the provisions and requirements of Title 45.1 of the Code of Virginia are exempt from this requirement.

Mining Permit No.: 05644AB

25. Does the facility discharge storm water into a Municipal Separate Storm Sewer System (MS4)? Yes ☐ No ☒

If yes, provide name of the MS4 operator _____

26. Would you like your permit sent to you electronically? Yes ☐ No ☒

If yes, please list the email address to send it to: Prefer hard copy; If possible, also email to BeckW@VMCMAIL.com

Certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Signature: _____

Walter C. Beck III

Date: 3/17/2014

Print Name Walter C. Beck III

Title: Environmental Engineering

Required attachments:

1. Evidence of approved mining permit
2. Water use schematic drawing
3. Aerial photo or map

FOR DEPARTMENT USE ONLY:

Accepted/Not Accepted by: Brid Ricks

Date: 6/26/14

Basin Chickahominy River

Stream Class III

Section 35

Special Standards —

TMDL Compliance Yes

SECTION 5.0 DISCHARGE SAMPLING AND ANALYSIS

The General Permit requires sampling and analysis of point source discharges that fall in the following categories.

Mine dewatering and/or discharges of process wastewater, including commingled stormwater.

Stormwater discharges from other plant areas where the stormwater has contacted areas directly related to manufacturing, processing, or raw materials storage.

5.1 Process Water and Stormwater Sampling/Analysis Program

Refer to Table 1 for required sample frequency and analytical parameters. There are five appropriate sampling locations at the Lawrenceville Quarry which will be used to sample various process water and stormwater discharges. Each outfall to be sampled is listed below along with a brief description of each outfall's type of discharge.

Representative Outfalls to be Sampled:

Outfall No.	Latitude / Longitude	Receiving Stream	Outfall Type	Source of Discharge
305-001	36° 45' 06" / 77° 44' 56"	Tributary of Robinson Creek	Commingled Process and Stormwater	Mine pit dewatering
305-100	36° 45' 10" / 77° 44' 50"	Tributary of Robinson Creek	Commingled Process and Stormwater	Process Water Ponds – Emergency Dewatering (No discharge for 25-year storm event, therefore no DMR required.)
305-015	36° 45' 28" / 77° 45' 33"	Tributary of Robinson Creek	Stormwater	Stormwater associated with industrial activity. This sample location will be representative of all discharges from stripping and overburden disposal areas.
305-016	36° 45' 02" / 77° 45' 00"	Tributary of Robinson Creek	Stormwater	Stormwater associated with industrial activity. This sample location is representative of all discharges from yard, maintenance shop, equipment parking and warehouse activities.
305-017	36° 45' 06" / 77° 44' 58"	Tributary of Robinson Creek	Stormwater	Stormwater associated with industrial activity. This sample location is representative of all discharges from yard, and material stockpile activities.
305-022	36° 45' 19" / 77° 44' 52"	Tributary of Robinson Creek	Stormwater	Stormwater associated with industrial activity. This sample location is representative of all discharges from railroad and material stockpile locations.

Note: There are a total of 15 discharge points (13 Stormwater, 2 process water) at the Lawrenceville Quarry site.

Mine dewatering flows are pumped to the creek at outfall 305-001. Reusable process water is stored within the process water pond area. In rare instances and in the event of an emergency, outfall 305-100 will discharge overflow from the process water ponds.

Outfall 305-002 which was the discharge point for runoff from yard and material stockpile areas which do not drain to the quarry pit, has been removed from site. Water which once discharged from this outfall now flows to the pit. Outfall 305-017 will now be the only discharge point for runoff from yard and material stockpile areas which do not drain to the pit.

Runoff from the southeast overburden disposal area is discharged at outfalls 305-003, 305-004, 305-005, and, newly located outfalls 305-013 and 305-023. Outfall 305-013 has always been in place, but was improperly labeled on previous maps.

Outfall 305-015 represents all discharges from stripping and overburden disposal areas.

Runoff from the southwest overburden disposal area will plan to discharge from outfall 305-009 in the near future. This outfall will be constructed and utilized once material continues to be stored at the southwest overburden storage areas. Until that time, the southwest overburden area will remain stabilized.

Outfalls, 305-012, 305-016 are discharge points for stormwater from relatively small, well stabilized yard areas around the maintenance and yard areas. Previous outfalls 305-011 and 305-013 now lie in a completely stabilized area which do not constitute stormwater discharge and have been eliminated (outfall 305-013 has been relocated). Outfall 305-016 will be considered the representative outfall for shop, vehicle parking and warehouse activities.

Outfalls 305-014 and 305-015 are discharge points for stormwater runoff from the northwest overburden disposal area. Currently, the most representative sampling point for stormwater discharges from overburden disposal areas is outfall 305-015 at the northwest overburden disposal area.

Outfall 305-021 is a discharge point from a stripping area to the east. This outfall is represented by outfall 305-015.

Outfall 305-022 is a discharge point for stormwater associated with railroad drainage and material stockpile area drainage.

The following table summarizes the total additional outfalls at this site which will not require sampling. The abovementioned outfalls that will be sampled have been linked to the following outfalls based on the overall type of discharge each additional outfall will represent. All outfall locations are indicated on the partial mine map in Appendix I.

Remaining Outfalls (not to be sampled):

Outfall No.	Latitude / Longitude	Receiving Stream	Outfall Type	Source of Discharge	Corresponding Representative Outfall*
305-003	36° 44' 42" / 77° 45' 08"	Tributary of Robinson Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	305-015
305-004	36° 44' 50" / 77° 44' 56"	Tributary of Robinson Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	305-015
305-005	36° 44' 50" / 77° 45' 25"	Tributary of Robinson Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	305-015
305-009	36° 44' 48" / 77° 45' 34"	Tributary of Robinson Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	305-015
305-012	36° 44' 59" / 77° 45' 09"	Tributary of Robinson Creek	Stormwater	Stormwater discharge from yard and material stockpile areas.	305-016
305-013	36° 44' 54" / 77° 45' 15"	Tributary of Robinson Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	305-015
305-014	36° 45' 07" / 77° 45' 36"	Tributary of Robinson Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	305-015
305-021	36° 44' 54" / 77° 44' 30"	Tributary of Robinson Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	305-015
305-023	36° 44' 46" / 77° 45' 12"	Tributary of Robinson Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	305-015

*Listed representative outfall is the appropriate sample point designated for that type of discharge; no grab sample needs to be taken for these additional listed outfalls.

PERMIT/LICENSE TO OPERATE A MINE

Permit/License No. 05644AB

Was issued to VULCAN CONSTRUCTION MATERIALS LP - LAWRENCEVI
Whose main office is located at (MIDEAST DIVISION)
RICHMOND, VA 23242

For type of mineral(s) GRANITE
Mine Type QUARRY Exemption Type N/A
Located at ON RT 58 EST OFEAGERTON
County of BRUNSWICK

THIS PERMIT IS ISSUED PURSUANT TO CHAPTER 14.1 AND 16, TITLE 45.1, CODE OF VIRGINIA(1950), AS AMENDED Being an Act to require permits/licenses for certain mining operations and to fix conditions for issuance thereof; to provide that certain safety and reclamation practices be performed by mine operators and for inspection thereof; and to advise on satisfactory compliance; to require an annual report on progress of reclamation and tonnage of mineral mined; to provide for the Director to seek injunctive relief; to provide for a Board of Surface Mining Review, a Board of Mineral Mine Examiners, and to provide for appeals from rulings, violations and decisions of the Department or associated Boards.

Issued MAY 23 2000
Covering 667.00 ACRES.
Receipt number 19921

THIS PERMIT/LICENSE MUST BE POSTED NEAR THE MINE OFFICE

MINE OFFICE COPY

MAKE-UP WASHDOWN
AND DUST CONTROL
WATER SUPPLY

PLANT
AREA

PIT
SUMP

WASH
TOWER

PROCESS WATER
SETTLING PONDS

MAKEUP WATER
WHEN NEEDED

CLEAN WATER
SETTLING POND

OUTFALL
305-001

EMERGENCY OUTFALL
305-010

SALLY'S POND

LEGEND:

WATER
FLOW

PUMP ○

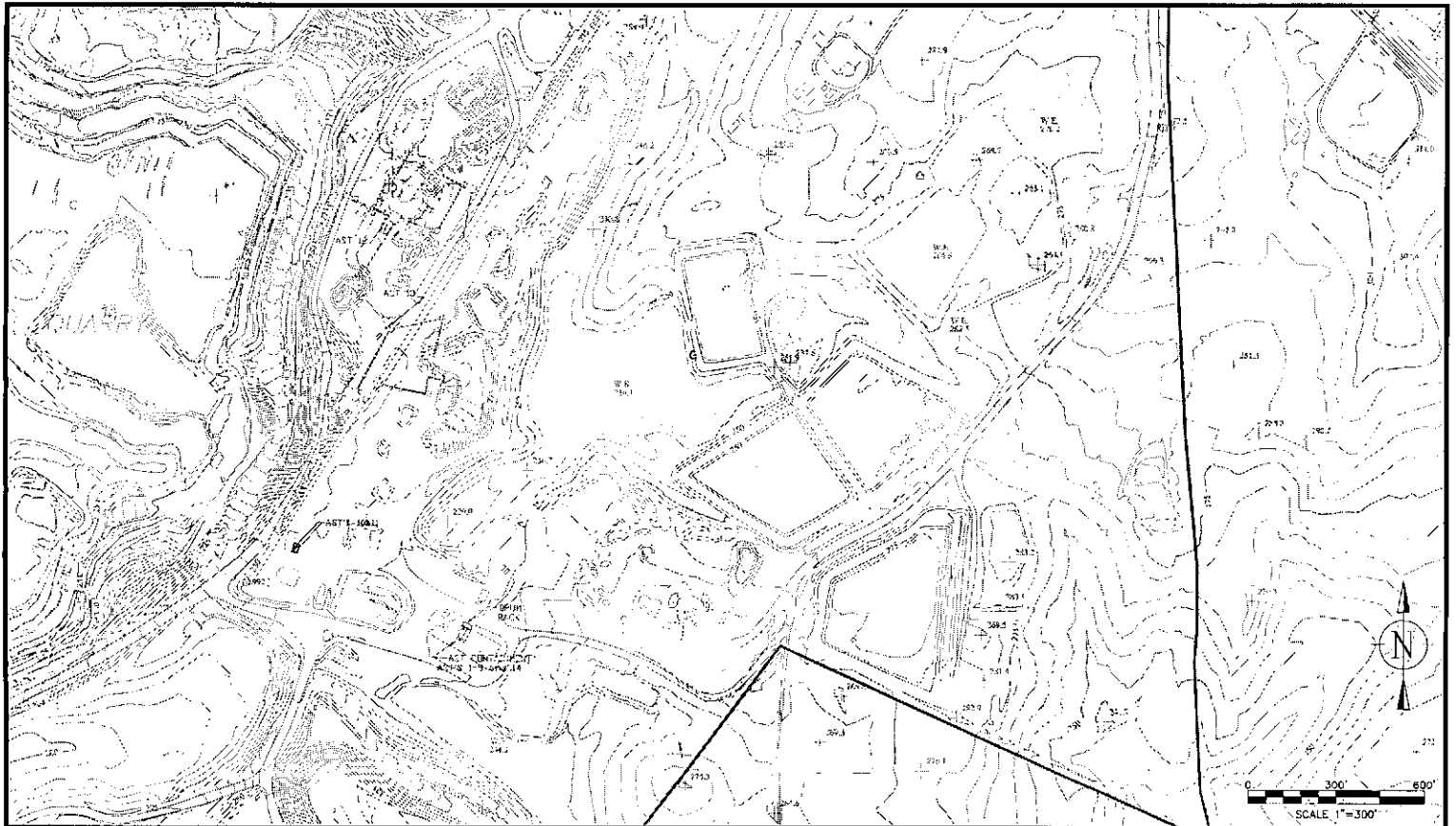
DRAWING NOT TO SCALE

Prepared by:

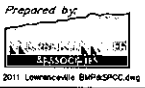


WATER USE SCHEMATIC
LAWRENCEVILLE QUARRY
LAWRENCEVILLE, VA
OCTOBER 2008

Vulcan
Materials Company



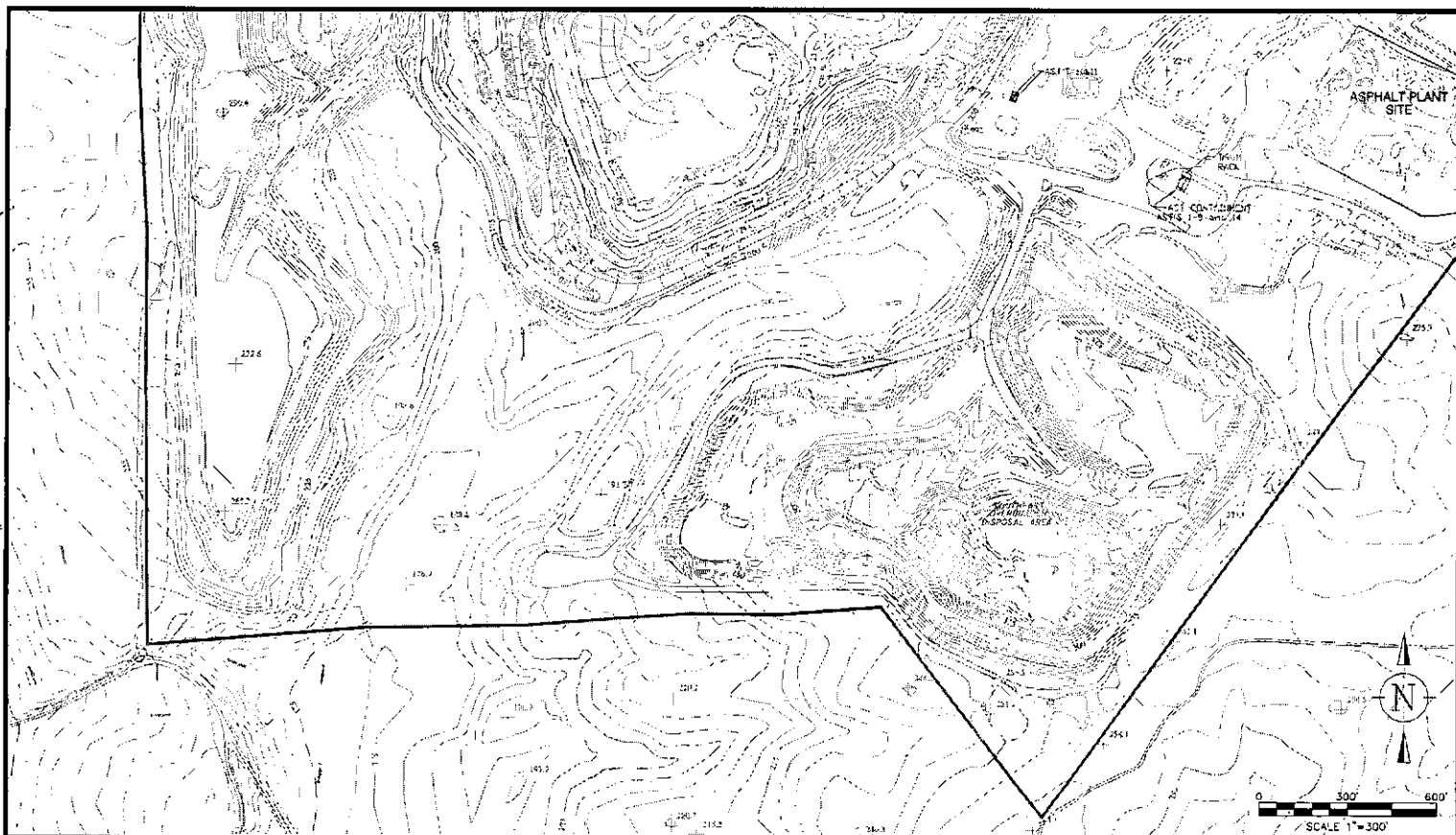
SHEET
1 OF 3



BMP/SPPP - OUTFALL LOCATION MAP
LAWRENCEVILLE QUARRY
FREEMAN, VIRGINIA

DATE: 5/13/11
SCALE: 1"=300'
DESIGNED: BMP
DRAWN: BMP
PROJECT: PR220A

Vulcan
Construction Materials



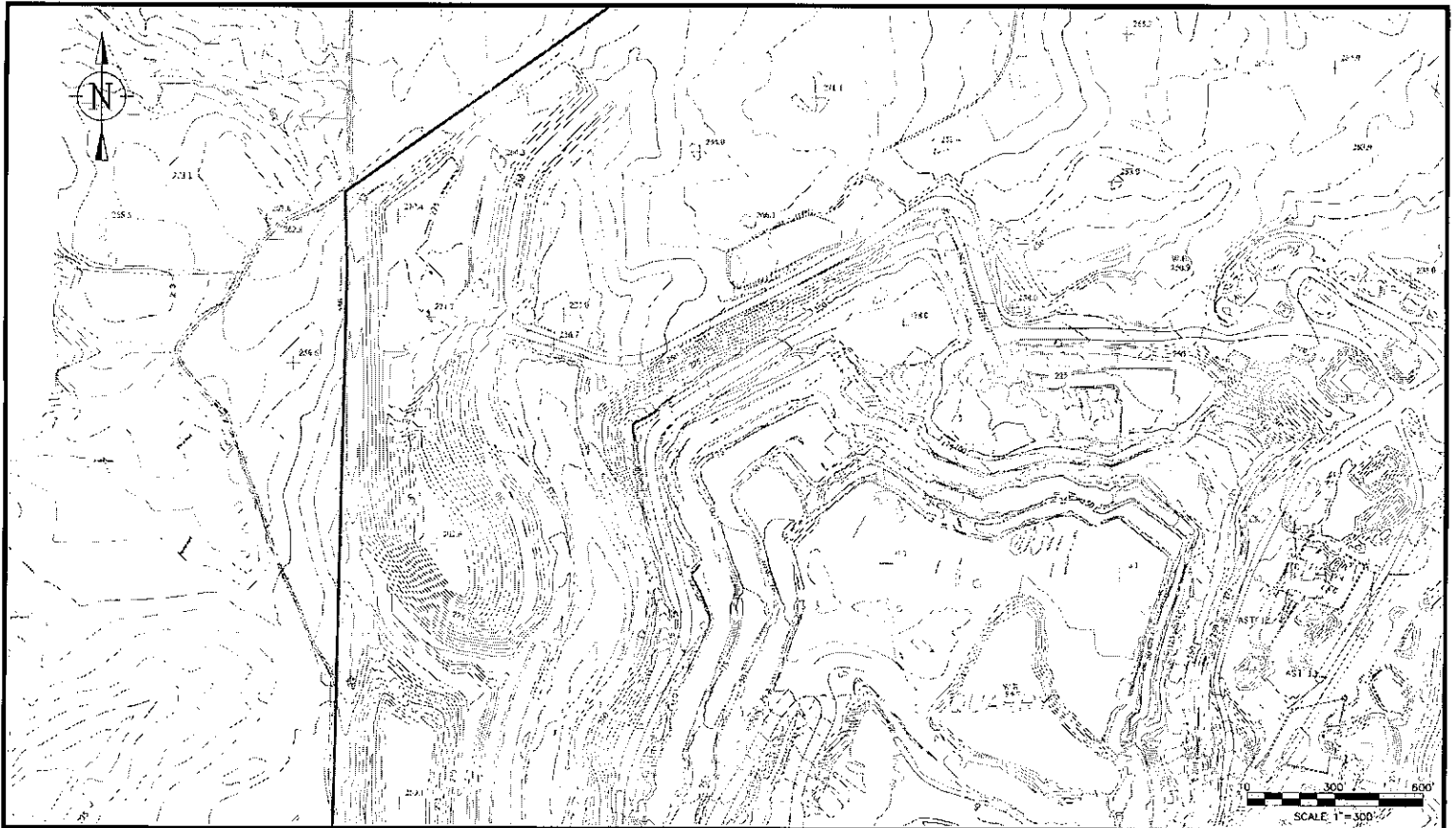
SHEET
2 OF 3



BMP/SPPP - OUTFALL LOCATION MAP
LAWRENCEVILLE QUARRY
FREEMAN, VIRGINIA

DATE: 6/13/11
SCALE: 1" = 300'
DESIGNED: BMP
DRAWN: BMP
PROJECT#: PR220A

Vulcan
Construction Materials



SHEET
3 OF 3

Prepared by

2011 Lawrenceville BMP&SPCC.dwg

BMP/SPPP - OUTFALL LOCATION MAP
 LAWRENCEVILLE QUARRY
 FREEMAN, VIRGINIA

DATE: 6/13/11
 SCALE: 1"=300'
 DESIGNED: BMP
 DRAWN: BMP
 PROJECT#: PR220A

Vulcan
 Construction Materials

SUBJECT: Reissuance of VPDES Permit No. VAG840134, Vulcan Construction Materials LP-
Lawrenceville Quarry

TO: Jennifer Palmore

FROM: Olive Critzer *Olive*

DATE: June 5, 2014

Receiving Stream: Robinson Creek UT
Waterbody ID: VAP-K08R
Latitude/Longitude: 36 45 06N / 77 44 55W
Location: 600 Middle Road, Freeman

Based on the outfall location identified on the attached topographic map and based on the information above, please provide me with the following:

1. Does the facility discharge to an impaired water or to an unnamed, unimpaired tributary of an impaired water for which a TMDL waste load allocation has not been established by the board and approved by EPA? N

If Yes, give the name of the impaired water: _____;

Impairment	Pollutant causing the impairment
	Y / N
	Y / N

2. Does any approved TMDL impose limits on discharges from this facility? Y

If Yes:

TMDL Pollutant	Does the facility discharge the TMDL pollutant?
Meherrin River & Tributaries Bacterial TMDL – E. coli – not addressed	N
	Y / N
	Y / N

Check if applicable:

- ☐ This facility was not included in the TMDL; however, the addition of this point source is not expected to cause water quality violations because it represents an insignificant load (less than 1%) compared to the TMDL.

- ☐ This facility was included in the Sediment TMDL for

(stream name)

and was given an allocation based on a TSS concentration of _____ mg/L.